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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM		Application Number	10/738,353
		Filing Date	December 17, 2003
		First Named Inventor	Michael Ward
		Group Art Unit	TBA
		Examiner Name	TBA
Total Number of Pages in This Submission		Attorney Docket Number	ATMI-677

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
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## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	William F. Ryann, Reg. No. 44,313
Signature	
Date	4/22/04

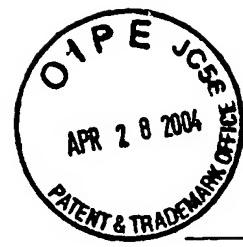
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ATMI-677  
PATENT APPLICATION

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Michael Ward, et al.

Group Art Unit: TBA

U.S. Application No.: 10/738,353

Examiner: TBA

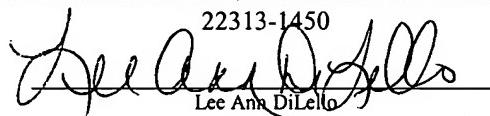
Filed: December 17, 2003

Title: SEMICONDUCTOR ALLOY WITH LOW SURFACE ROUGHNESS, AND METHOD  
OF MAKING SAME

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April 26, 2004  
Date

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
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Sir:

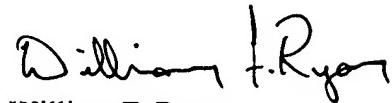
Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required in accordance with 37 CFR § 1.56 and § 1.97(b).

- 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
  - a. I hereby certify that each item of information contained in this Information Disclosure Statement was the first citation of such item by a foreign patent office in a counterpart foreign application, which occurred no more than three months prior to filing the Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).
  - b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).
  - c. Attached is our check no. \_\_\_\_ in the amount of \$180 in payment of the fee under 37 C.F.R. §1.17(p). Please credit or debit Deposit Account No. 50-0860 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Attached is our check no. \_\_\_\_ in the amount of \$130.00 in payment of the petition fee under 37 C.F.R. §1.17(i)(1). Please credit or debit Deposit Account No. \_\_\_\_ as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
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- 4. (other):

Applicant does not believe that any additional fee is due in connection with the foregoing.  
However, any deficiencies may be charged to the deposit account 50-0860.

Respectfully submitted,



William F. Ryann  
Registration No. 44,313  
Agent for Applicant

Date: 4-23-04

Advanced Technology Materials, Inc.  
7 Commerce Drive  
Danbury, CT 06810  
Agent Ref: ATMI-677

FORM PTO-1449 APR 28 2004 INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)		U.S. Dept. of Commerce Patent and Trademark Office	ATTORNEY DOCKET NO. ATMI-677	SERIAL NO. 10/738,353
		APPLICANT Michael Ward, et al.		
		FILING DATE December 17, 2003	GROUP TBA	

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,221,413	6/22/ 1993	Brasen, et al.			
	AB	5,810,924	9/22/1998	Legoues, et al.			
	AC	6,117,750	9/12/2000	Bensahel, et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION YES	NO
							X (abstract only)	

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

	AD	Currie, et al., J. Vac. Sci. Technol. B 19(6), Nov/Dec. 2001
	AE	Fitzgerald, et al., Appl. Phys. Lett., 59, (1991) 811
	AF	Larsen, Mat. Sci and Eng. B71, (2000), 6-13
	AG	Leitz, et al., J. Appl. Phys., Vol. 90, No. 6, 15 September 2001
	AH	Hsu, et al., Appl. Phys. Lett., 61, (1992), 1293
	AI	Yu, et al., Appl. Phys. Lett., Vol. 64, No. 24, 13 June 1994, 3305
	AJ	Li, et al., J. Vac. Sci. Technol. B 16(3), May/June 1998
	AK	Kazuki Mizushima, et al., Mat. Res. Soc. Symp. Proc., Vol. 648, 2001

Continue on Page

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.